



Australian Government

AUR31120 Certificate III in Heavy Commercial Vehicle Mechanical Technology

Release 1

AUR31120 Certificate III in Heavy Commercial Vehicle Mechanical Technology

Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Qualification Description

This qualification reflects the role of individuals who perform a broad range of tasks on a variety of heavy commercial vehicles in the automotive service and repair sector.

No licensing, legislative or certification requirements apply to this qualification at the time of publication.

Entry Requirements

Nil.

Packaging Rules

Total number of units = 36

22 core units, plus

14 elective units, of which:

- 1 unit must be from one of the Specialist Elective Groups A or B below
- of the remaining 13 units required to make up the elective unit total:
 - up to 13 may be from the Specialist Elective Groups and/or the general elective units listed below
 - up to 6 may be from a Certificate II qualification or above in this Training Package or another endorsed Training Package or accredited course.

Elective units chosen must be relevant to the work environment and the qualification, maintain the overall integrity of the AQF alignment, not duplicate the outcome of another unit chosen for the qualification, and contribute to a valid vocational outcome.

Core Units

AURAEA002 Follow environmental and sustainability best practice in an automotive workplace

AURASA102 Follow safe working practices in an automotive workplace

AURETR112 Test and repair basic electrical circuits
AURETR122 Diagnose and repair vehicle dynamic control systems
AURETR124 Diagnose and repair compression ignition engine management systems
AURETR125 Test, charge and replace batteries and jump-start vehicles
AURETR129 Diagnose and repair charging systems
AURETR130 Diagnose and repair starting systems
AURHTB101 Diagnose and repair heavy vehicle air braking systems
AURHTD102 Diagnose and repair heavy commercial vehicle steering systems
AURHTD103 Diagnose and repair heavy commercial vehicle suspension systems
AURHTE102 Diagnose and repair heavy vehicle compression ignition engines
AURHTQ103 Diagnose and repair heavy vehicle drive shafts
AURHTZ101 Diagnose and repair heavy vehicle emission control systems
AURTTA006 Inspect and service hydraulic systems
AURTTA104 Carry out servicing operations
AURTTA118 Develop and carry out diagnostic test strategies
AURTTTC103 Diagnose and repair cooling systems
AURTTTF102 Inspect and service diesel fuel injection systems
AURTTTF105 Diagnose and repair engine forced-induction systems
AURTTTK102 Use and maintain tools and equipment in an automotive workplace
AURTTQ001 Inspect and service final drive assemblies

Specialist Elective Units

Group A: Heavy Vehicle Manual Transmission

AURHTX101 Diagnose and repair heavy vehicle manual transmissions

Group B: Heavy Vehicle Automatic Transmission

AURHTX103 Diagnose and repair heavy vehicle automatic transmissions

General Elective Units

AURAFB103 Communicate effectively in an automotive workplace
AURAMA001 Work effectively with others in an automotive workplace
AURETR120 Diagnose and repair network electronic control systems
AURETR132 Diagnose and repair automotive electrical systems
AURETR143 Diagnose and repair electronic body management systems
AURETR144 Diagnose and repair integrated engine and transmission management systems
AURETU103 Service air conditioning and HVAC systems
AURETU104 Diagnose and repair air conditioning and HVAC components
AURETU105 Retrofit automotive air conditioning and HVAC systems
AURHTB002 Diagnose and repair heavy vehicle hydraulic and air over hydraulic braking systems
AURHTB107 Diagnose and repair heavy commercial vehicle electronic braking systems
AURHTD104 Carry out heavy vehicle wheel alignment operations
AURHTE001 Remove and install heavy vehicle engine assemblies

AURHTF102 Diagnose and repair heavy vehicle diesel fuel injection systems
AURHTJ103 Remove, inspect and refit heavy vehicle wheel and tyre assemblies
AURHTJ106 Remove, inspect, repair and refit heavy vehicle tyres and tubes
AURHTL101 Inspect, diagnose and repair alternative fuel systems in heavy vehicle engines
AURHTQ102 Diagnose and repair heavy commercial vehicle final drive assemblies
AURHTX002 Inspect, test and replace heavy vehicle automatic transmissions
AURHTX104 Diagnose and repair heavy vehicle clutch systems
AURHTY001 Inspect and service mechanical connections of heavy vehicles and trailers over 4.5 tonnes
AURHTY102 Diagnose and repair mechanical connections of heavy vehicles and trailers over 4.5 tonnes
AURTTA014 Assemble and install pneumatic system components
AURTTA105 Select and use bearings, seals, gaskets, sealants and adhesives
AURTTA113 Diagnose and repair hydraulic systems
AURTTB004 Inspect and service air braking systems
AURTTB006 Inspect, service and repair auxiliary braking systems
AURTTB101 Inspect and service braking systems
AURTTC002 Repair radiators
AURTTD002 Inspect and service steering systems
AURTTD004 Inspect and service suspension systems
AURTTE104 Inspect and service engines
AURTTK001 Use and maintain measuring equipment in an automotive workplace
AURTTL003 Install CNG fuel systems
AURTTL006 Install LNG fuel systems
AURTTL009 Install LPG fuel systems
AURTTL104 Inspect and service LNG fuel systems
AURTTL105 Diagnose and repair LNG fuel systems
AURTTX102 Inspect and service manual transmissions
AURTTX103 Inspect and service automatic transmissions
AURTTZ102 Diagnose and repair exhaust systems
AURVTW018 Carry out oxyacetylene welding, thermal heating and cutting
AURVTW101 Carry out manual metal arc welding on components
AURVTW103 Carry out advanced gas metal arc welding on vehicle body sections
AURVTW104 Carry out tungsten inert gas welding

Qualification Mapping Information

Supersedes is equivalent to AUR31116 Certificate III in Heavy Commercial Vehicle Mechanical Technology.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>